Volume 8, Number 1 **January 1990**

V. J. MORAND: Low-pressure regional metamorphism in the Omeo Metamorphic Complex, Victoria, Australia 1

S. E. JOHNSON: Lack of porphyroblast rotation in the Otago schists, New Zealand: implications for crenulation cleavage development, folding and deformation partitioning 13

H. J. KISCH: Calibration of the anchizone: A critical comparison of illite 'crystallinity' scales used for definition 31

J. R. MUHLING: The Narryer Gneiss Complex of the Yilgarn Block, Western Australia: a segment of Archaean lower crust uplifted during Proterozoic orogeny 47

G. L. CLARKE, W. J. COLLINS & R. H. VERNON: Successive overprinting granulite facies metamorphic events in the Anmatjira Range, central Australia 65

T. J. B. HOLLAND & R. POWELL: An enlarged and updated internally consistent thermodynamic dataset with uncertainties and correlations: the system K_2O–Na_2O–CaO–MgO–MnO–FeO–Fe_2O_3–Al_2O_3–TiO_2–SiO_2–C–H_2–O_2 89

Y. MOTOYOSHI, B. J. HENSEN & H. MATSUEDA: Metastable growth of corundum adjacent to quartz in a spinel-bearing quartzite from the Archaean Napier Complex, Antarctica 125

S. H. BOTTRELL, P. B. GREENWOOD, B. W. D. YARDLEY, T. J. SHEPHERD & B. SPIRO: Metamorphic and post-metamorphic fluid flow in the low-grade rocks of the Harlech Dome, north Wales 131

Forthcoming papers 144

Volume 8, Number 2 **March 1990**

R. D. DALLMEYER, O. D. HERMES & J. I. GIL-IBARGUCHI: $^{40}Ar/^{39}Ar$ mineral ages from the Scituate Granite, Rhode Island: implications for Late Palaeozoic tectonothermal activity in New England 145

H. C. HUMPHREYS & J. M. VAN BEVER DONKER: Early Namaqua low-pressure metamorphism: deformation and porphyroblast growth in the Zoovoorby staurolite schist, South Africa 159

L. R. RICIPUTI, J. W. VALLEY & V. R. MCGREGOR: Conditions of Archean granulite metamorphism in the Godthab–Fiskenaesset region, southern West Greenland 171

P. SENGUPTA, S. DASGUPTA, P. K. BHATTACHARYA & M. MUKHERJEE: An orthopyroxene–biotite geothermometer and its application in crustal granulites and mantle-derived rocks 191

H. M. LANG & G. R. DUNN: Sequential porphyroblast growth during deformation in a low-pressure metamorphic terrain, Orrs Island–Harpswell Neck, Maine 199

E. DACHS: Geothermobarometry in metasediments of the southern Grossvenediger area (Tauern Window, Austria) 217

D. VISSER & A. SENIOR: Aluminous reaction textures in orthoamphibole-bearing rocks: the pressure–temperature evolution of the high-grade Proterozoic of the Bamble sector, south Norway 231

Forthcoming papers 247

Volume 8, Number 3 **May 1990**

D. ROBINSON: Editorial 249

D. G. A. BALL & P.-Y. F. ROBIN: METPET: Metamorphic petrology microcomputer programs 251

R. J. H. LOOSVELD & M. A. ETHERIDGE: A model for low-pressure facies metamorphism during crustal thickening 257

R. A. JAMIESON: Metamorphism of an Early Palaeozoic continental margin, western Baie Verte Peninsula, Newfoundland 269

E. J. KROGH, A. ANDRESEN, I. BRYHNI, T. M. BROKS & S. E. KRISTENSEN: Eclogites and polyphase P–T cycling in the Caledonian Uppermost Allochthon in Troms, northern Norway 289

N. H. S. OLIVER, R. K. VALENTA & V. J. WALL: The effect of heterogeneous stress and strain on metamorphic fluid flow, Mary Kathleen, Australia, and a model for large-scale fluid circulation 311

D. ROBINSON, L. N. WARR & R. E. BEVINS: The illite 'crystallinity' technique: a critical appraisal of its precision 333

R. KRYZA, A. MUSZYNSKI & D. VIELZEUF: Glaucophane-bearing assemblage overprinted by greenschist-facies metamorphism in the Variscan Kaczawa complex, Sudetes, Poland 345

K. LAAJOKI & P. TUISKU: Metamorphic and structural evolution of the Early Proterozoic Puolankajärvi Formation, Finland – I. Structural and textural relations 357

P. TUISKU & K. LAAJOKI: Metamorphic and structural evolution of the Early Proterozoic Puolankajärvi Formation, Finland – II. The pressure–temperature–deformation–composition path 375

Forthcoming papers 392

Volume 8, Number 4 **July 1990**

S. WALLIS & S. BANNO: The Sambagawa belt – trends in research 393

Y. ISOZAKI & T. ITAYA: Chronology of Sanbagawa metamorphism 401

T. HIGASHINO: The higher grade metamorphic zonation of the Sambagawa metamorphic belt in central Shikoku, Japan 413

M. OTSUKI & S. BANNO: Prograde and retrograde metamorphism of hematite-bearing basic schists in the Sanbagawa belt in central Shikoku 425

I. HARA, T. SHIOTA, K. HIDE, K. OKAMOTO, K. TAKEDA, Y. HAYASAKA & Y. SAKURAI: Nappe structure of the Sambagawa belt 441

M. TORIUMI: The transition from brittle to ductile deformation in the Sambagawa metamorphic belt, Japan 457

K. YOKOYAMA & T. ITAYA: Clasts of high-grade Sanbagawa schist in Middle Eocene conglomerates from the Kuma Group, central Shikoku, south-west Japan 467

Corrigendum 475

Forthcoming papers 476

Volume 8, Number 5 **September 1990**

V. GARDIEN, M. TEGYEY, J. M. LARDEAUX, M. MISSERI & E. DUFOUR: Crust–mantle relationships in the French Variscan chain: the example of the Southern Monts du Lyonnais unit (eastern French Massif Central) 477

RALPH KRETZ: Biotite and garnet compositional variation and mineral equilibria in Grenville gneisses of the Otter Lake area, Quebec 493

T. TOYOSHIMA: Pseudotachylite from the Main Zone of the Hidaka metamorphic belt, Hokkaido, northern Japan 507

A. BHATTACHARYA, B. SPIERING, S. K. SEN, R. NATARAJAN & A. C. MAZUMDAR: Compositional characteristics and phase equilibria in manganiferous iron formations from a high-grade terrain near Satnuru, Karnataka, India 525

G. LUCCHETTI, R. CABELLA & L. CORTESOGNO: Pumpellyites and coexisting minerals in different low-grade metamorphic facies of Liguria, Italy 539

K. A. JONES & MICHAEL BROWN: High-temperature 'clockwise' P–T paths and melting in the development of regional migmatites: an example from southern Brittany, France 551

Reviews 579

Editor's Note 589

Forthcoming papers 590

Volume 8, Number 6 **November 1990**

S. L. HARLEY, B. J. JENSEN & J. W. SHERATON: Two-stage decompression in orthopyroxene–sillimanite granulites from Forefinger Point, Enderby Land, Antarctica: implications for the evolution of the Archaean Napier Complex 591

P. D. CROWLEY: Metamorphism within the Çokkul synform: evidence for detachment faulting within the metamorphic infrastructure of the Norwegian Caledonides (67°30′N) 615

B. SCHULZ: Prograde–retrograde P–T–t–deformation path of Austroalpine micaschists during Variscan continental collision (Eastern Alps) 629

G. M. DIPPLE, R. P. WINTSCH & M. S. ANDREWS: Identification of the scales of differential element mobility in a ductile fault zone 645

A. A. GARDE: Thermal granulite facies metamorphism with diffuse retrogression in Archaean orthogneisses, Fiskefjord, southern West Greenland 663

F. S. SPEAR, M. J. KOHN, F. P. FLORENCE & T. MENARD: A model for garnet and plagioclase growth in pelitic schists: implications for thermobarometry and P–T path determinations 683

C. D. JOHNSON & W. D. CARLSON: The origin of olivine–plagioclase coronas in metagabbros from the Adirondack Mountains, New York 697

List of referees 719

Forthcoming papers 720

Subject index 721

Author index 723